

19981114.qrp v01_n276.qrs.981114

Date: Sat, 14 Nov 1998 19:03:10 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1276

QRP-L Digest 1276

Topics covered in this issue include:

- 1) [25039] Re: Info. on Bobtail Curtain, Please!
by wb2vuo@juno.com (W. K. Hibbert)
- 2) [25040] Re: wanted a QRP beginners site
by ka1iic <ka1iic@ime.net>
- 3) [25041] Bit maps for QSL's
by ka7you@juno.com
- 4) [25042] RE: SG-2020 HF Transceiver
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 5) [25043] Who had LDG tuner?
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 6) [25044] QRP Satellite - Sputnik 41
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 7) [25045] Re: FOX: need Team member
by "Bill Todd" <bill@willapabay.org>
- 8) [25046] 6m xvtr?
by James Skalski <jskalski@buffnet.net>
- 9) [25047] N/T Fox?
by Tim Pettibone <tpettibo@NMSU.Edu>
- 10) [25048] KA0GKC on 7.122
by "David Ek" <ekdave@earthlink.net>
- 11) [25049] Re: MFJ HF/VHF analyzer
by RangerSF5@aol.com
- 12) [25050] Antenna Idea
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 13) [25051] FOX Roadkill
by "Steve/n0tu" <n0tu@webaccess.net>
- 14) [25052] FOX: NOVIVE/TECH - KA0GKC
by Tom Palmer <n1tp@worldnet.att.net>
- 15) [25053] Re: Info. on Bobtail Curtain, Please!
by "L. B. Cebik" <cebik@utkx.utcc.utk.edu>
- 16) [25054] Re: Help Auto ON/OFF circuit for W7EL Wattmeter
by "George Heron" <gheron@idt.net>
- 17) [25055] RS DSP Filter Unit
by k7sz@epix.net
- 18) [25056] Leonids Echo at 5 Watts ?
by n3aaz-qrp@juno.com (John R Kirby)
- 19) [25057] RE:[24991] FD 98 W0CQC

- by Brian Kassel <bkassel@dancris.com>
- 20) [25058] N/T Fox
by k5ubs@juno.com (Oscar A Hoyt)
- 21) [25059] Re: [24967] Re: QRP RTTY SUCCESS
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 22) [25060] Re: N/T Fox
by Monte Stark <ku7y@dri.edu>
- 23) [25061] N/T+ Foxhunt log for 11/14/98 1:30 -3:20UTC
by applitech@mcg.net (Claton Cadmus)
- 24) [25062] FREQUENCY READOUTS
by Earl Murphy <earlmurf@telusplanet.net>
- 25) [25063] Re: FFT with PC Sound Card?
by "George T. Baker" <w5yr@swbell.net>
- 26) [25064] Bug user? Vibro-Fox Finders NEED YOU!
by we6w@juno.com (Ed Loranger)
- 27) [25065] Elmer 200/ft243 etc./QSL AZ, Resonant Speaker, Filters.
by we6w@juno.com (Ed Loranger)
- 28) [25066] G3RJV Parts Kits for 6 Pack and Free NorCal Boards Gone
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 29) [25067] Re: wanted a QRP beginners site
by W5TB <w5tb@softhome.net>
- 30) [25068] Re: Bit maps for QSL's
by W5TB <w5tb@softhome.net>
- 31) [25069] OHR500 Kit Review de K5F0
by Chuck Adams <adams@ticnet.com>
- 32) [25070] Elmer200 Crystal Checker
by Chuck Adams <adams@ticnet.com>
- 33) [25071] Re: Info. on Bobtail Curtain, Please!
by "E. Andrews" <earlve3ab@igs.net>
- 34) [25072] Argo 509
by Ed <edn4pk@voyageronline.net>
- 35) [25073] Re: Bug user? Vibro-Fox Finders NEED YOU!
by applitech@mcg.net (Claton Cadmus)
- 36) [25074] njqrp
by "C. Lamar Derk" <n3at@epix.net>
- 37) [25075] Re: Antenna Idea
by "Kevin F. Glynn" <kfglynn@prodigy.net>
- 38) [25076] More gain for SW-40+
by Pat Byers <pbyers@rttinc.com>
- 39) [25077] Vibro-Fox Finders, New Member
by we6w@juno.com (Ed Loranger)
- 40) [25078] LPDA 10-meter monoband design notes at site
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 41) [25079] re: SGC 2020
by Kathi Hilton <kathi2@earthlink.net>
- 42) [25080] Re: SG-2020 HF Transceiver
by "K10J" <k10j@swbell.net>
- 43) [25081] Setting output pwr w/analog pwr meter

- by "Jim Sharp" <lobar@doitnow.com>
- 44) [25082] re: FS: .141 SEMI-RIGID COAX
by Brad Bradfield <b_bradfield@yahoo.com>
- 45) [25083] FS: HR2600 10M ALL MODE TRANSCEIVER
by "Mike Nelson" <mike_nelson@acm.org>
- 46) [25084] the AZ book deal msg is out
by Scott Howell <whowell@hq.nasa.gov>
- 47) [25085] VA3SBB 28.241 Bcn
by Fred Lesnick <flesnick@tbaytel.net>
- 48) [25086] FS: Bencher BY-2 Chrome paddles
by DaveLeDuc@aol.com
- 49) [25087] ANTENNA TAPE from doll house craft store.
by "GREGORY HEATH" <KB2QQM@email.msn.com>
- 50) [25088] S&S Engineering TAC1
by "Ivan Dubinsky" <ivand@mountain-inter.net>
- 51) [25089] Tayloe mixer Rx and SCAF
by Steven Weber <kd1jv@moose.ncia.net>
- 52) [25090] RE: The Hensley Paddle: Move Over Mercury
by Al Gritzmacher <ae2t@bigfoot.com>
- 53) [25091] FOX: Teams lineup (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>
- 54) [25092] brand new N/T+ fox this Wednesday
by "JEFFREY MICHAEL POULIN" <jpoulin@erols.com>
- 55) [25093] A GOOD DAY
by KØRWC <rcw@frii.com>

Date: Fri, 13 Nov 1998 19:13:58 -0500
From: wb2vuo@juno.com (W. K. Hibbert)
To: jmlowman@ix.netcom.com, qrp-1@lehigh.edu
Subject: [25039] Re: Info. on Bobtail Curtain, Please!
Message-ID: <19981113.191359.14214.1.wb2vuo@juno.com>

Hi Jim. Keith here in the Depths of the Great Bergen Swamp of WNY...

The Bobtail is three 1/4-wave verticals spaced 1/2-wave apart. The center vertical element is fed at a voltage node with a parallel-tuned LC circuit. This results in very low ground losses and reduces the need for extensive radials. The pattern is bi-directional, perpendicular to the line of the verticals elements and shows about 4 dB gain on low-angle paths.

The Editors & Engineers "Radio Handbook", the ARRL "Antenna Book" and W1FB's "Antenna Notebook" all have examples of the Bobtail.

The vertical elements should be #12 or #14 wire, cut to a length of 234/F, length in feet. The top wire is the same material, and each leg

For 10 Meters, the vertical wires would be 8 ft 3 in and the horizontal wire would be 17 ft 4 in. The LC circuit for the feedpoint would use a 20 - 35 pF cap with an appropriate coil to resonate at 28.3 MHz. The top of the tank is connected to the center vertical element, and the bottom of the tank to ground, or a ground screen. Couple the coax to the tank with a 1-turn link.

Diagram illustrating the PCB layout for the 100MHz PLL. The layout is rectangular, with dimensions 17'4" (width) and 8'3" (height). A dashed line indicates a feed point labeled "x (Feed here)". A ground connection is labeled "(GND)".

You can scale the Bobtail back, with only 2 elements and feed it at a corner directly with coax. In this configuration, it's known as a "Half-Square", and it can be turned upside-down, putting the HV ends up in the air. About 3 dB instead of 4 dB, and a bit wider pattern.

72/73, Keith, WB2VU0, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 13 Nov 1998 20:41:49 -0800
From: ka1iic <ka1iic@ime.net>
To: qrp-l@Lehigh.EDU
Subject: [25040] Re: wanted a QRP beginners site
Message-ID: <364D0A0D.1916@ime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Folks,

What I need is a list of very good QRP beginner sites as I have been out of amateur radio for a while and have never really run much less than 100 watts. I have good antennas such as a 20 meter horizontal Vee beam mostly wire stuff but I have over 60 acres to play with.

What I need to know are the basics, I do a lot of tube building but am now building low power transistor stuff ie a 80 meter direct conversion receiver... works great and now I'm bitten...

So what say oh gurus of QRP?

72 & 73
vince
ka1iic
Maine
FN54LE

Date: Fri, 13 Nov 1998 19:49:11 EST
From: ka7you@juno.com
To: QRP-L@LeHigh.EDU
Subject: [25041] Bit maps for QSL's
Message-ID: <19981113.170350.20455.26.ka7you@juno.com>

I'm looking to revamp my QSL cards, and am looking for bit map (*.bmp) images, QRP and ham related, to incorporate into my new design. Do any of you know of a site with a fair selection of related images? They will be for my personal use only.

Thanks,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.
160M thru 1296 MHz-higher bands pending

ARCI-QRP #7251 QRP-L #844 NWQRP #120 and others

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 13 Nov 1998 17:55:50 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [25042] RE: SG-2020 HF Transceiver
Message-ID: <5103124387F8D11199DD00A0C925E4B90628D6@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

>>Has anyone any experience with the new HF rig SG-2020 shown in the
Kenwood line, or SGC line?<<

Hot topic! There's good news, and there's bad news...

My story about the SG-2020 can be found at <http://www.bramwell.org>.

Date: Fri, 13 Nov 1998 17:57:23 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [25043] Who had LDG tuner?
Message-ID: <5103124387F8D11199DD00A0C925E4B90628D7@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

Who had the LDG 100 watt tuner for sale?

denton@bramwell.org or
bramwell@iomega.com

Date: Fri, 13 Nov 1998 19:20:51 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: QRP-L Distribute <qrp-l@Lehigh.EDU>
Subject: [25044] QRP Satellite - Sputnik 41
Message-ID: <364CDAF3.50443835@swbell.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

There is a new 1/3 scale replica of the original Sputnik in orbit now called Sputnik 41 / RS-18. It transmits messages with 200 mW FM and has a very good signal. For those interested I have recordings that I made last night of the transmissions on my web page below. I also have information on the satellite.

73,
Steve Yates
AA5TB
aa5tb@swbell.net
<http://home.swbell.net/aa5tb/>
Fort Worth, Texas

Date: Fri, 13 Nov 1998 17:38:28 -0800
From: "Bill Todd" <bill@willapabay.org>
To: <eakwikjr@hti.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [25045] Re: FOX: need Team member
Message-ID: <002001be0f6f\$7dfbe800\$264ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Thanks Bruce!
>Yes the Brass Pounders team is looking for additional members. We
>started out with just two. Alan KB7MBI, had to bug out. Marshall
>N1FN/VK5FN, has volunteered so we are back to two.

Gosh Ed -

With your group consisting of TWO ED's, one of them being Mr. ED,
I think the rest of the FOX groups ought to just give up now...ha ha.

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Fri, 13 Nov 1998 20:50:09 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: qrp-l@Lehigh.EDU
Subject: [25046] 6m xvtr?
Message-ID:
<Pine.LNX.4.03.9811132043380.1716-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Has anyone built the 3 watt 6 meter transmit converter that was in the handbook a couple years ago? Did you use a MRF476? What would be a good sub at 6M?

What did you do for the rx converter? Did you design that or where did you find the reference.

My BYO xcvr project will be 160-10 +2m so far. Maybe will include 6M also. I may be able to shoehorn both into the box or have a separate transverter box.

73,

Jim (N2G0)

Date: Fri, 13 Nov 1998 19:00:06 -0700
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: qrp-l@lehigh.edu
Subject: [25047] N/T Fox?
Message-ID: <1.5.4.32.19981114020006.0066d89c@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I should've written it down but when and approximately where (and who) is the N/T fox tonite. Haven't worked one of them there wooly creatures way up in the northlands of 40m!

Tim K50I

Date: Fri, 13 Nov 1998 18:54:51 -0700
From: "David Ek" <ekdave@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [25048] KA0GKC on 7.122
Message-ID: <000b01be0f73\$3c0ea140\$22bc2499@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Cla, the N/T+ fox on tonight, is currently working on 7.122. Go get him!

72 de Dave AB0GO

Date: Fri, 13 Nov 1998 21:12:55 EST
From: RangerSF5@aol.com
To: qrp-1@lehigh.edu
Subject: [25049] Re: MFJ HF/VHF analyzer
Message-ID: <61b00ca0.364ce727@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,
I picked up the MFJ Analyzer model 259-B (new model)
The AES Catalog says it has a 10 digit LCD frequency counter.
The owners manual only says that longer gate times are accompanied by
additional digits in the display, increasing counter resolution.
The most digits I can get to display is 7 on vhf 147.555.0
The picture of the unit in the catalog shows a 10 digit display.
Anyone have one of these units?
Did I pick up a bad one or am I doing something wrong?
Many thanks in advance.
Bob
WA2HOQ

Date: Fri, 13 Nov 1998 21:18:04 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>

To: NJQRP Club <njqrp@njqrp.org>, "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [25050] Antenna Idea
Message-ID: <364CE85C.219CBAC6@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have been making up a few dipoles for the field. I'm sure most folks have had problems with tangled antennas no matter how hard they try to keep things sorted out. Well when I was scrounging for wire for my 20 meter antenna I could only find pieces of insulated wire of two different colors (in this case one black and one red). Then it hit me. If you make one leg of the dipole one color and the other another, it would make sorting out any tangles that much easier because you could clearly tell each wire from the other. I'm going to make this the standard practice for all my field antennas. Give it a try. Time saved untangling antennas can be time spent on the air.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Fri, 13 Nov 1998 18:29:13 -0800
From: "Steve/n0tu" <n0tu@webaccess.net>
To: <qrp-1@lehigh.edu>
Subject: [25051] FOX Roadkill
Message-ID: <000901be0f76\$a4469800\$7ba8a3cc@S&P.www.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Jack ...you sly FOX you,

I was on the way home from dinner w/xyl (actually she was in her car ahead of me. I was chasing my own fox ...so to speak) when I was tuning around looking for some fast code for practicing my head copy

and heard "... HZ/FOX" "Wow that's the FOX I wonder if I can catch em with my mobile." ...and so I pulled over to strap on my 'leg iron' and listened again "He's gone! dagnabbit!" ...back up to speed on the interstate I tuned a lil ..."there's dat sly FOX ...I gott'em in my headlights now! ...closing in his furry little face lite up and I saw the fear in his glassy-dark eyes which were transfixed on my light beamsWAMB! thuumphh de thumph! Hmmm I think I got him just before that 18-wheeler swushed by me! I almost felt a little saddened! (NOT!) he he <grin> I unstrapped my leg iron, rolled down the window, took a deep breath of that crisp Colorado evening and thought how FUN QRP is ...

LATER I walked into the barn and Pam sez "where ya been ...what took so long?" "I had to slow down to chase the FOX." ...she sez "WHAT?!"OH that FOX! ...so did you nail HIM?" Yes Dear I FLATTENED him back on the interstate...he's now a spinner (roadkill) fox!" <grinning like a bear>

Yes, Foxiing is a blast even from the mobile but trying to keep'em in your headlights is a trick ...they just dart around too much! NICE work Jack ..a fun hunt!!!

Sorry I missed part of my reply when ya sent my call cuz of a passing truck or I would have corrected it then. But it's N0TU not MU. And my name is Steve(AKA Roadkiller)

TU & 72Steve/n0tu Monument,CO
<http://www.webaccess.net/~s&p/HRindex.htm>

Date: Fri, 13 Nov 1998 21:36:15 -0500
From: Tom Palmer <n1tp@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [25052] FOX: NOVIVE/TECH - KA0GKC
Message-ID: <364CEC9E.406F775@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Clayton (at 7.122) is around 219 here in Naples. FL Hear several hounds trying to get his ear, including KK5X0 and N0TU. The hounds are all at least 559. Regards, Tom, N1TP

Date: Fri, 13 Nov 1998 21:35:24 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Jim Lowman <jmllowman@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [25053] Re: Info. on Bobtail Curtain, Please!
Message-ID: <Pine.GS0.3.96.981113213028.3256B-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Jim,

The info in the ON4UN Low Band DXing book, derived from work by an SM4 is very good. The Bobtail pattern is a bi-directional peanut of low angle radiation--no high lobes to catch nearer-in QRM/QRN. Can be fed either at the high end of the center vertical wire directly with coax or at the lower tip with a high Z tank circuit. There are some notes on the antenna, comparing it roughly to other antennas in the same class at my site under the heading of SCVs, along with references to ham magazine articles in which the antenna is featured. However, the ON4UN notes on dimensions are among the best around.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)(423) 974-7215
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	\	/	/	(FAX)(423) 974-3509
37938-4443 USA	/	\	\	\			cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Fri, 13 Nov 1998 20:30:32 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <applitech@mcg.net>
Subject: [25054] Re: Help Auto ON/OFF circuit for W7EL Wattmeter
Message-ID: <018101be0f78\$3b4e1e20\$833984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Cla,

Check out the N2CX-designed Rainbow Tuner circuit ... it uses a VN10K transistor to activate its internal circuits to measure and display SWR. Pretty useful technique. Follow the Rainbow Tuner links from the NJ-QRP home page (<http://www.njqrp.org>) and look for the schematic.

73,

--George, N2APB

n2apb@amsat.org in Sparta, NJ

>One of the projects here is a W7EL watt meter. It's moving to the top of
>the list anyway. One of the mods I seem to recall was an auto on/off
>feature. [snip]
>Anyway I would like to incorporate this feature so when you transmit, it
>reads the SWR and Power. Help, ideas??

Date: Fri, 13 Nov 1998 21:58:18 -0800
From: k7sz@epix.net
To: qrp-l@lehigh.edu
Subject: [25055] RS DSP Filter Unit
Message-ID: <364D1BFA.7197@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Has anyone done any serious work with this little add-on?

I have had one for a couple of years and never really used it for anything except a portable speaker with CW AF filtering (according to KR1S' review in QST way back in 1994 or 95 the thing did not use a DSP algorithm (sp) but only active AF filtering in the CW position).

Tonight I was prowling on 40 and heard a VERY weak CW signal that I just couldn't pull out with the Sierra using ABX. I fired up the DSP unit in the CW position and it did little good, but, on a whim, I tried it in the Noise Reduction mode and the weak signal popped up several dB allowing me to copy a couple of call signs. Switching the DSP unit out of line dropped the signals back down into the noise. Punch it again and the signals were back...not real strong but certainly readable.

I'd never thought to use this DSP unit in the NR mode while copying CW before tonight...but I certainly will keep it on tap in the future.

Anyone have similar results with their RS DSP units?

73 Rich K7SZ

Date: Fri, 13 Nov 1998 22:16:15 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: qrp-1@Lehigh.EDU
Subject: [25056] Leonids Echo at 5 Watts ?
Message-ID: <19981113.221629.-74655.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Can I hear my echo from the Leonids meteor shower using
a 5 watt CW transmitter,
two 4 element yagis and
a 10 dB preamplifier?

For this purpose my yagi has a gain of 10 dBd (one order of magnitude).

If these two antenna face each other and
the separation distance is zero meters
the path loss is zero dB.

Under this configuration input to the receiver is 5,000 Watts
(5 Watts raised three orders of magnitude),
(one for each antenna and one for the pre-amp) or
an equivalent transmit power of 5 k W (174 dBuV).

Assume a 6,000 km ($d = 6E6$) antenna separation
(round trip distanced), a perfect reflector and
a frequency of 144 MHz ($wl = 2.1$),
the path loss ($(20 \log (4 \pi d) / wl)$) is 151 dB.

WAG 20 dB absorption for a not perfect "reflector" ?

Subtract path loss and absorption from equivalent transmit power,

$(174 \text{ dBuV}) - (151 \text{ dB}) - (20 \text{ dB}) = 3 \text{ dBuV}$

the return signal is greater than one micro volt,

I think most radios can hear that.

Does this wet your appetite or what?

John
N3AAZ

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 13 Nov 1998 20:15:35 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L@lehigh.edu
Subject: [25057] RE:[24991] FD 98 W0CQC
Message-ID: <364CF5D7.9FC86241@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gangue:

Congrats to the Colorado QRP Club "W0CQC" for their 2A FD victory. Having won the 1B QRP category way back in 1980, I can really appreciate this feat! Sometimes, I think that I'm still a little fatigued from that one to this day.

Y'all have a cool one on us!

Brian W5VB0
AZ ScQRPions.

Date: Fri, 13 Nov 1998 21:19:01 -0600
From: k5ubs@juno.com (Oscar A Hoyt)
To: qrp-l@Lehigh.EDU
Subject: [25058] N/T Fox
Message-ID: <19981113.211902.16206.0.k5ubs@juno.com>

snagged the n/t fox at 0255 on 7.1077....followed him down from 7.122.
Claton hope you got all my info, you dropped out at the end but had a good signal when first called you.
Question? what do you do when someone answers your "CQ fox" and ask what the fox hunt is while you are in the middle of the hunt?

Oscar K5UBS Ham since 55

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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 13 Nov 1998 20:08:19 -0800 (PST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
To: rschneid@ix.netcom.com
Cc: kreinbd@ccgate.dl.nec.com, qrp-1@Lehigh.EDU
Subject: [25059] Re: [24967] Re: QRP RTTY SUCCESS
Message-ID: <199811140408.UAA23906@netcom16.netcom.com>

Since conditions are pretty bad, and the WAE RTTY 'test is a bust for the moment, I'll share my plans.

I want to put the RX portion of the Volksrtty setup in a NC-20, and FSK the TX, so that with a 1 IC board and some smart software, I should be able to run RTTY with an HP200 and NC20.

That's a back-packable size, I think.

73, doug

Date: Fri, 13 Nov 1998 20:11:56 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Oscar A Hoyt <k5ubs@juno.com>
Cc: QRP-L <qrp-1@lehigh.edu>
Subject: [25060] Re: N/T Fox
Message-ID: <Pine.SOL.3.96.981113200900.19453A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Oscar,

I'd just tell them it's a little QRP contest, that I am the Fox and that I'm trying to get all the Hounds I can and that the prize is a new BMW which I want so, tks qso es 73! CQ Fox.....

: -)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 13 Nov 1998 22:13:17 -0600
From: applitech@mcg.net (Claton Cadmus)
To: "QRP-l" <qrp-l@lehigh.edu>
Subject: [25061] N/T+ Foxhunt log for 11/14/98 1:30 -3:20UTC
Message-ID: <00b901be0f85\$210698a0\$a10a5e2c@groucho>

Had to move down from 7.122 after a few and at 3:00 UTC got clobbered by a SW station. Moved up to a nice clear 7.145 but no takers that I could hear, gave it up at 3:20. Going to make a couple changes before next weeks hunt that I hope will improve the ears here. Nice to have much more attention then last Wednesday. I know I missed a bunch of you, I wasn't moving the RIT much and had the 500 Hz filter on. Noticed at least one of you were about 1khz high calling for me. That far away I can't hear you unless I crank the RIT. Had lots of fun tonight and made lots of mistakes to match. I find calling CQ over and over the mind starts to wander and the next thing you know I forget where I am, even in my own call! ;-)

OK, here's the log, as best I can put together from my scribbles and spilled soda!

#	Callsign	Mine	Yours	ST	Name	Number
1	N0AR	559	449	MN	Scott	1455
2	KE0WW	559	599	MN	Mike	250
3	AB0GO	559	449	CO	Dave	785
4	AA5TA	559	449	TX	Larry	1245
5	NQ7X	449	449	AZ	Floyd	343
6	KK5X0	559	449	OK	Dick	1221
7	AC5JS	559	559	LA	Roy	-????
8	KM5JX	579	579	Missed the rest????		
9	K5UBS	459	449	TX	Oscar	1737

Number 9, K5UBS Oscar came up in signal and I copied him straight through without a miss, great fist and nice and slow. Thanks. Maybe I'm getting a little better at this too!

I thought about posting a note on the MNQRP-L list to get some of the locals to come out and make me look good. I didn't get around to it though, nevertheless the first 2 pelts tonight go to MNQRP guys! Thanks for thinking about me.

73 de KA0GKC Claton Cadmus

cla@mcg.net
MNQRP #1
Minnesota QRP'ers we're looking for you!
Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Fri, 13 Nov 1998 21:14:10 -0600
From: Earl Murphy <earlmurf@telusplanet.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [25062] FREQUENCY READOUTS
Message-ID: <364CF582.ACB@telusplanet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang...Anyone out there had good results with frequency readouts (LCD) on the Green Mountain series (SWL) rigs? If so, I would appreciate hearing from you...72's ..Earl (VE6EWM) QRP-C #6....QRP-L #1076

Date: Fri, 13 Nov 1998 23:44:22 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: n5em@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [25063] Re: FFT with PC Sound Card?
Message-ID: <364D18B6.AAEE66D@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed, I have been using what is, to me, an outstanding real-time FFT spectrum analysis program. It is Spectrogram v 4.12 by Richard Horne. His email is rshorne@mnsinc.com. The program is shareware. Take a look at it!

72/73, George
Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

Ed Manuel wrote:

> Could someone remind me where this software is available?

Date: Sat, 14 Nov 1998 00:59:10 EST
From: we6w@juno.com (Ed Loranger)
To: eakwikjr@hti.com, ratttray@gpfn.sk.ca
Cc: qrp-1@Lehigh.EDU
Subject: [25064] Bug user? Vibro-Fox Finders NEED YOU!
Message-ID: <19981113.215603.7871.2.we6w@juno.com>

Very fine business.

On Fri, 13 Nov 1998 09:29:43 -0500 "Edward A Kwik jr" <eakwikjr@hti.com> writes:

<snip>

>Yes the Brass Pounders team is looking for additional members. We
>started out with just two. Alan KB7MBI, had to bug out.

Speaking about bug Out. Due to work load and obligations beyond the control of Vibro-Fox Finder Tom/WB5QYT, he had to drop from our team. So the Vibro-Fox finders, (Affectionately known as the Vibro-Bro's), are now FOUR. Bruce, please update your records -- Thanks.

This is an opportunity for one of you out there, willing to ONLY work the fox with a BUG, to email me and see about joining us!

We are not snobby about bugs or paddles, straight keys, etc. CW is fun! We just happen to be doing it BUG-Style this year. Next year we might be the Paddle-ette's and you have to wear a "Tu-tu" while nabbing the fox :)

"Tu Tu".... Hear this at the end of QSO's a lot... I wonder what it means...

Thank You. Auditions at 9AM PST tomorrow on WSN-40 net.
7040 KHz.
-Ed

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 14 Nov 1998 00:59:10 EST
From: we6w@juno.com (Ed Loranger)
To: qrp-1@Lehigh.EDU
Subject: [25065] Elmer 200/ft243 etc./QSL AZ, Resonant Speaker, Filters.
Message-ID: <19981113.215603.7871.1.we6w@juno.com>

Chuck/K5FO mentioned soon to be available, gory detail
on what to do/not do with xtals. the FT243 sample
will be the guinea pig.

Reminds me of a catchy antenna series I think L.B. Cebik
has, "Antennas From the Ground Up" I hope this is L.B.'s,
If not I apologize for an incorrect reference.

But I can easily see the series: "Crystals from the Ground Up".

Catchy?

This is going to be some great stuff. And a great time to
be on qrp-1, discussing Low power amateur radio and the
diverse subjects of radio station operation.

It is still friday so excuse the humor:

"You know I've cut this board 3 times and it's still too short!"

"I've been grinding this crystal for hours and it still isn't
low enough!"

LOL

Custom grinding crystals I think is one of those arts. Is
Art still around? Find him! We don't want him to be lost.

And be glad we aren't custom brewing Yitrium Iron Garnets!
Worked with them in the early 80's. Got pretty good with
"Presession of angular atomic fields" and modes etc. The
yig came on a sapphire stick with a cut just before the end
where the yig sat. Then once you get it all rotated into
place and signals peaked you broke it off at the detent.
Sometimes you had to rework these things and use an expensive
grapping tool to hold what remained of the shaft.

Couldn't find the expensive, custom made tool one day and
of course I had a poor-person's fix! Yup, them thar coffee
stir sticks (mini plastic straws) were a perfect fit!

I remember telling the engineer: "I hope the cafeteria sticks
with this vendor" Hee, hee. I wonder if they ever got
a part number assigned to them coffee stirrers.

<LOL>!

Got a nice letter from AZ today. Those folks are great!
They'll QSL Before you work them! Thanks guy.

Got the Resonant speaker now at 12 dB S/N improvement over
the reference Resonant speaker. Wow!

I've got no beef on filtered email. Face it, we get lots.
I'm thinking someday of offering my prized possessions
in a drawing -- subject line something like:

"No Sale, \$Free! Cousin Elmer's Fox Rig. QRO/QRP, CW-Speaker,
I Hate P.O. Mail -- email ONLY!" <end subject line>

Problem is, the only ones getting the message can't operate
the rig due to over-enlarged 'delete-key' finger, Ha, ha, ha...

I hope some of this was humorous. And the OBQRP in there
too. Not bad for a Friday.

Tks Friends.
-Ed Loranger we6w

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
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or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 13 Nov 1998 23:16:10 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [25066] G3RJV Parts Kits for 6 Pack and Free NorCal Boards Gone

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Wow, what a response. The 25 sets of Free NorCal Boards for the Six =
Pack and Parts kits have all been sold. Thank you for the response. =
72, Doug, KI6DS

Date: Sat, 14 Nov 1998 04:30:35 -0600
From: W5TB <w5tb@softhome.net>
To: qrp-l@Lehigh.EDU
Subject: [25067] Re: wanted a QRP beginners site
Message-ID: <3.0.3.32.19981114043035.0072cd38@pop.SoftHome.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:41 PM 11/13/98 -0800, you wrote:

>Hi Folks,

>

>What I need is a list of very good QRP beginner sites

Hi Vince, my favorite qrp list is at <http://www.extremezone.com/~ki7mn/>

for ham radio in general it's hard to beat <http://www.ac6v.com/>

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
QRPARCI # 3252 NORCAL ZOMBIE #1002 QRP-L #673 FISTS # 5365

Date: Sat, 14 Nov 1998 04:32:31 -0600
From: W5TB <w5tb@softhome.net>
To: ka7you@juno.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [25068] Re: Bit maps for QSL's
Message-ID: <3.0.3.32.19981114043231.00713554@pop.SoftHome.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:49 PM 11/13/98 EST, ka7you@juno.com wrote:

>I'm looking to revamp my QSL cards, and am looking for bit map (*.bmp)

>images, QRP and ham related, t

hi rod, try starting at <http://www.qni.com/~kg0zz/hamlinks.htm>

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
QRPARCI # 3252 NORCAL ZOMBIE #1002 QRP-L #673 FISTS # 5365

Date: Sat, 14 Nov 98 07:14:17 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [25069] OHR500 Kit Review de K5FO
Message-ID: <199811141311.IAA148904@nss4.cc.Lehigh.EDU>

Gang, here is my review of the Oak Hills Research OHR500 transceiver kit. Good work can't be rushed..... Any errors, omissions, are purely the error on the part of the reviewer. Review and photos on the web page below next week after getting back from visiting the AZ sQRPions.

Review of Oak Hills Research OHR500 5-Band CW Transceiver Kit
Review Version 1.00
Chuck Adams, K5FO
November 11, 1998

MFR: Oak Hills Research Address of MFR: 20879 Madison Street
 Big Rapids, MI 49307
 616.796.0920 phone number
Designer: Dick Witzke, KE8KL
Model: OHR500
Size: 4"x8.25"x8.25"
Weight: 3.8 pounds for assembled kit with case
PC board: Three double sided plated-through, solder-masked
 and silk-screened PC board
Manual: 38 pages 8.5x11" double sided manual + 26 pages
 parts listings and schematics and illustrations
 Comb binding with heavy cover pages front and back.
Power : 12 to 15VDC
RX Drain: Around 270mA

TX Drain: 1 Amp
Ant Connection: SO-239 connector
Pwr Connection: Coaxial DC Power Jack
Key Connection: 1/4" Mono Phone Jack
Ear Phones: 1/4" Mono Phone Jack
Modes: CW only
Kit: Yes. Complete with case and internal parts
Bands: 80m, 40m, 30m, 20m and 15m
LO/VFO: Osc with 5.000-5.150MHz out for 150 kHz on all 5 bands
Drift: Less than 500Hz in 20 minutes from a cold start with cover removed at 65 degrees F.
Dial Range: Marked 0 to 150
RX: SuperHet
XMT: Yes. The following measured into dummy load.
80m - 8.0W with 13.5V
40m - 6.5W with 13.5V
30m - 4.7W with 13.5V
20m - 4.0W with 13.5V
15m - 3.5W with 13.5V
Power variable from front panel control.
IF Filter: Four crystal filter at 9.000MHz
Selectivity: About 500 Hz without low pass audio filter switched in. Low pass audio filter has rapid roll-off about 1 KHz to remove the highs.
RIT: Yes. + and - 1kHz or better
Gain: Audio and RF gain on front panel.
AGC: Yes and it is very good. I find this one helps with RF gain turned up and audio turned up listening for weak ones and then tuning across your neighbors signal.
Preamp: Yes
Atten: No
Builtin SPKR: No, but speaker output through 1/8" mono jack in back. 2W audio amp for speaker and 0.5W for earphones
Meter: No
S Tone: Sine wave generated at audio levels. Adjustable level and pitch/frequency.
VFO: Yes. Covers about 150kHz on each band. High side injection on all bands.
Output: 5.0W adjustable with front panel knob to lower levels
Internal Keyer: Optional for \$39. Uses a programmed PIC microprocessor.
QSK: Yes and very nice as always from OHR.
Price: \$349.00 US (see web page <http://www.ohr.com/>)
Availability: From Oak Hills Research at above address.
Options: Keyer optional. See web page.
Date of Review: November 11, 1998
Author: Chuck Adams, K5FO
Comments: Another super rig from Oak Hills Research.

This kit, as the other OHR kits over the years has step by step check 'em off as you go instructions. For the inexperienced builder there is a pictorial on winding toroids (there are 9 in this kit) in the additional 10 pages and there are two pages of 'parts pictorials' showing drawings of each part. This is like the old Heathkit manuals and in fact Dick W. uses an illustrator that used to do the Heath manuals if I remember correctly. I found that for an hour or so after winding a number of toroids that the thumb and first finger on the left hand are sore. There are about 33 toroids for this kit, so be prepared.

I went through the assembly process without a single hitch. I did take my time as there was one trip to CA for Pacificon just after I got the kit. This one is not a rush kit. It will take you almost a week of evenings to get it built. Take your time and enjoy building it. I consider it therapy.

This reviewer has invested a lot of time and money in a lot of kits including a lot of OHR stuff. It may seem that I work for OHR, but I don't. I have a full time job already. I do this stuff for fun.

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 14 Nov 98 07:19:06 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [25070] Elmer200 Crystal Checker
Message-ID: <199811141317.IAA199802@nss4.cc.Lehigh.EDU>

Gang,

Someone sent me a URL for a crystal checker:

<http://www.ybi.com/brink/qrp/crystaltester.html>

and I just hope there are no typos here. :-) I hate it when that happens.

Thanks for the pointer and I don't know how long the page will be there. This for those that haven't gotten a round 'tuit.

dit dit es FYI es Film at 11

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 14 Nov 98 07:38:02 PST
From: "E. Andrews" <earlve3ab@igs.net>
To: qrp-L@lehigh.edu, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [25071] Re: Info. on Bobtail Curtain, Please!
Message-ID: <MAPI.Id.0016.0061726c766533613030303930303039@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>I saw a Variation on the Bobtail Curtain in one of the arrl antenna
compendums which
featured a Bobtail with the 1/2 wave phasing line at the bottom (nearer to
ground) in the
case of the HF bands, I wonder if that would work at HF being close to the
ground. I think
the article was called a "Robert Tail Antenna" 73 Earl VE3AB
>
>

Date: Sat, 14 Nov 1998 08:36:01 -0500
From: Ed <edn4pk@voyageronline.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [25072] Argo 509
Message-ID: <364D8741.7057843E@voyageronline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone know of good mod for the ARGO to reduce the audio gain in
the headphones ?? TenTec at one time suggested a series resistor and one
across the circuit. But I dont remember the values. Any and all
suggestions welcome.

72/73 Ed W3NR

Date: Sat, 14 Nov 1998 07:37:51 -0600
From: applitech@mcg.net (Claton Cadmus)
To: <we6w@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [25073] Re: Bug user? Vibro-Fox Finders NEED YOU!
Message-ID: <012801be0fd6\$8ad22b40\$a10a5e2c@groucho>

>Thank You. Auditions at 9AM PST tomorrow on WSN-40 net.
>7040 KHz.

(These two sentences are to be read with the inflection of a question)
Thank you vary mooch(?) End di hope weave pas'ed the 'odition(?)

Sorry, 73 de Cla

Date: Sat, 14 Nov 1998 09:21:28 -0500
From: "C. Lamar Derk" <n3at@epix.net>
To: Low Power amateur discussion <qrp-1@lehigh.edu>
Subject: [25074] njqrp
Message-ID: <364D91E8.21E1@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is the njqrp web site down? I have been unable to access it this morning.

Lamar, N3AT

Date: Sat, 14 Nov 1998 10:46:39 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <njqrp@njqrp.org>, <qrp-1@Lehigh.EDU>
Subject: [25075] Re: Antenna Idea
Message-ID: <199811141547.KAA82574@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Skip and gang,

Great idea. I've purchased 14, 16 and 18 ga wire from Home Depot, and find the 14 ga the least annoying to work with in the field tangle wise, although a little heavier (single conductor stranded).

I promised myself a better way next year and am going to make new ants for portable use this time out. Will try your method as well as making some reels to wrap the wire. Years ago my father used to fold newspaper to wrap the Christmas tree lights onto, so maybe a piece of plywood would do the trick. I have some small reels form fishing line so I have two idea now. They only tangle during QRP contests or when I don't have a lot of time to operate, naturally!

72 Kevin N2T0
Brooklyn, NYC
kfglynn@prodigy.net

Date: Sat, 14 Nov 1998 09:01:25 -0700
From: Pat Byers <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, qrp-canada@lists.gpfn.sk.ca
Subject: [25076] More gain for SW-40+
Message-ID: <3.0.5.32.19981114090125.008056c0@mail.rttinc.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

I have an SW-40+ which never ceases to amaze me. It's a superb radio for the price and support from Dave Benson is second to none. However, I've always wished it had a bit more oomph in the audio. Perhaps it's my aging ears but when signals are weak I've had some difficulty in hearing them. So yesterday I attempted a solution.

In his Data Book for Homebrewers and QRPers, Paul Harden NA5N describes a simple grounded source post-filter IF amplifier for receivers that use an MC1350 as an IF amplifier. This circuit is similar to that used in the MFJ 90xx series of QRP rigs. It provides a modest 10 dB gain but more importantly improves the impedance match between the crystal filter and the IF amplifier. This results in a better overall S/N ratio. We can all use quieter receivers, can't we?

Well, the SW-40+ doesn't have an MC 1350 IF amp; instead the crystal filter

feeds the NE612 product detector U3 through coupling capacitor C15. The impedance mismatch between the crystal filter and the NE612 isn't as great as in the MC 1350 but I still wanted more gain so I decided to try the FET amp anyway. I figured if it didn't work, I could easily restore the radio to its original state. That's one of the nice things about the SW-40+ - it's compact, yet easy to work on. Dave's design is magical in this respect.

Anyway, I inserted the amplifier between the last crystal in the IF filter and the coupling capacitor C15. It seems to work very well, although poor band conditions last night precluded thorough testing and I don't have test equipment to make accurate measurements. It's probable that loud signals will more easily overload the receiver but the Gain control is easy to use. I'm looking forward to wringing it out the next week or so but my preliminary observations are encouraging.

Very few parts are needed and no surgery on the SW-40+, other than the removal of a few parts, is necessary. Before starting, gather together the SW-40+ manual, an rf FET (e.g. MPF102, J310, or equivalent), a 330 ohm resistor, and a 22 uH rf choke. Then, remove the SW-40+ pc-board from the case. Here's how I did the mod:

1. Remove R1 and C15. Set aside C15; it will be used later.
2. Remove the end of C104 which is at ground. This will serve as the ground point for the source lead of the FET.
3. Remove the end of C105 which is at Vr. This will provide the tie point for V+ to the FET amplifier.
4. Using dead bug techniques, solder a 330 ohm resistor (the smaller the better) between the gate and source leads of the FET. I used a J310 because I had one handy but I think the venerable MPF102 should work as well. It would be wise at this point to read ahead and envision how the amp will be installed in the radio. Some manipulation and orientation of the components is necessary to get everything to fit.
5. Solder one end of a 22 uH choke to the drain of the FET.
6. Connect C15 which you previously removed from the pc board to the junction of the FET Drain and the 22 uH choke.

Here's where it gets tricky. (When I use ugly construction techniques, it looks truly ugly.) Insert the amplifier into the SW-40+ as follows:

7. The gate of the FET goes into the hole vacated by C15 which connects to the xtal filter.
8. The free end of the 22 uH choke goes to the Vr point on the board

vacated by bypass capacitor C105. C105 must also be reconnected. I tried without success to place the wires from both the choke and the capacitor into the hole but they didn't fit. Instead, I first installed the choke wire then soldered the capacitor to this wire.

9. The free end of C15 is installed in the hole vacated by R1 which connects to pin 2 of the product detector U3.

10. Install the source lead of the FET in the ground hole vacated by C104. It will also be necessary to reconnect C104 to ground at this point.

11. Check your work for errors. If you're satisfied, put the radio back together and fire it up. You should immediately notice an increase in volume.

I hope all this makes sense. I'd appreciate hearing from anyone else who tries this mod.

72,

Pat Byers, VE6AAN
Lacombe, AB

Date: Sat, 14 Nov 1998 11:16:32 EST
From: we6w@juno.com (Ed Loranger)
To: we6w@juno.com, ku7y@dri.edu, bill@willapabay.org, rakefet@rakefet.com, whalen@swcp.com, we6w@qsl.net, n4xy@att.net, rattray@gpfn.sk.ca
Cc: qrp-1@lehigh.edu
Subject: [25077] Vibro-Fox Finders, New Member
Message-ID: <19981114.081328.4951.4.we6w@juno.com>

I'd like to introduce you to the newest member of the Vibro-Fox Finders.

Ed Tanton N4XY in Georgia.

Also, Bill N7MFB just informed me that he will now be working nights and NO FOX Hunting for him. Drat!

So Ed/N4XY is new, Tob and Bill are gone, so we still can fit one more Semi-automatic Key or Bug user on the team.

Current team is:
==== Vibro-Fox Finders ===

Ed WE6W
Vic K2VCO
Ron KU7Y
Ed N4XY

And I'd like to thank Bruce aka "Hambly the scribe", for
keeping track of all this!! Thanks Bruce.

72 Ed WE6W
72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 14 Nov 1998 11:17:12 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp-l@blacksheep.org,
towertalk@contesting.com, antennas@qth.net, antennaware@contesting.com
Subject: [25078] LPDA 10-meter monoband design notes at site
Message-ID: <Pine.GS0.3.96.981114111520.4213C-1000000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have added a few more phases of the study to the initial monoband LPDA
notes. Hope the subsequent phases of the project are useful to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off) (423) 974-7215
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	\	/	/	(FAX) (423) 974-3509
37938-4443 USA	/	\	\	\	\		cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Sat, 14 Nov 1998 10:35:35 -0600
From: Kathi Hilton <kathi2@earthlink.net>

To: qrp-1@Lehigh.EDU
Subject: [25079] re: SGC 2020
Message-ID: <3.0.32.19981114103026.007a3270@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Denton,

I've got a second generation SGC 2020, LOVE IT!! I've had the unit now for almost six months and I've got fairly extensive experience with it including digital. VERY nice little rig for the money.

Kathi - N0FKA

Visit Kathi's Web Page:
[Http://home.earthlink.net/~kathi2/flower.html](http://home.earthlink.net/~kathi2/flower.html)

Date: Sat, 14 Nov 1998 10:52:17 -0600
From: "K10J" <k1oj@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [25080] Re: SG-2020 HF Transceiver
Message-ID: <011601be0fef\$23f03de0\$0108c1cf@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy from Texas.....

I will keep this brief. Save your money. This is without a doubt the worst rig I have ever used. No, the rig was not defective. I have been a ham for nearly 25 years and spend most of my time on CW. I have used many QRP rigs and some are very good. The OHR line and especially the OHR-400 perform well. Unfortunately the 2020 stinks. The rig drifts terribly. The rig chirps. The rx audio is very 'thin'. The rx selectivity is as wide as a barn door. The rx sensitivity is very low. Rx noise blanking is very poor. SCAF filtering is OK but not very effective if you can't get the interfering signals out of the IF passband.

There are some positives. Its cute. Its small. The case is indestructible. SGC makes some fine rigs. The 2020 is not one of them. It is a 30 dollar radio in a 600 dollar case.

OJ---K10J
QRP-L 732

Date: Sat, 14 Nov 1998 09:51:04 -0800
From: "Jim Sharp" <lobar@doitnow.com>
To: "QRP group" <qrp-l@Lehigh.EDU>
Cc: <tpettibo@NMSU.Edu>
Subject: [25081] Setting output pwr w/analog pwr meter
Message-ID: <001001be0ff7\$6eb2c160\$5e9d62cf@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings Tim (K50I) and all !

I'm Ccing Tim directly because I see he also uses a Kenwood TS140.

I need some advice on setting output power properly using an analog power meter.

I run a Kenwood TS140S with ALC for QRP work and want to know how to set the output power with reasonable confidence that I'm at QRP levels. I use a PACE 5403A SWR/WATT meter.

QUESTION: Should I make all CW power adjustments into a dummy load and use 0.707 X meter reading (watts) for value ?

This troubles me because I don't know if the PWR meter is really RMS.

QUESTION: Once the power level is SET, does changing modes usually require re-adjustment ?

QUESTION: What method do the voice folk use for AM and SSB (and digital modes) to calibrate output power at QRP levels ?

QUESTION: If the power level is set into a dummy load doesn't the power change when the antenna is connected, since the impedance is rarely exactly 50 ohms ?

Thanks in advance !

Jim -- KC7GHP -- Peoria, Az QRP-L #1472

Date: Sat, 14 Nov 1998 10:04:18 -0800 (PST)
From: Brad Bradfield <b_bradfield@yahoo.com>
To: Message posts for QRP-L <qrp-l@lehigh.edu>
Subject: [25082] re: FS: .141 SEMI-RIGID COAX
Message-ID: <19981114180418.18738.rocketmail@send202.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Good morning y'all - -

FYI, I still have two 8' pieces of .141 semi-rigid coax available at \$1.00 per foot plus shipping if anyone needs any. I also have eight 5' pieces available.

72's es 73's,

Brad, WB0CGH

==

Brad Bradfield, PE WB0CGH Systems Engineer
Raytheon Systems Company

Real men talk with their fingers!!

QRP-L #377
ARS #72
Austin QRP Club #e

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sat, 14 Nov 1998 13:25:47 -0500
From: "Mike Nelson" <mike_nelson@acm.org>
To: "Qrp List" <qrp-l@Lehigh.EDU>
Subject: [25083] FS: HR2600 10M ALL MODE TRANSCEIVER
Message-ID: <000001be0ffc\$33c3d580\$2da6dccf@mike>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

For sale: mint Uniden HR 2600 all mode 10 meter transceiver (am, fm, ssb, cw). 25 watts input. In original box with manual, used very little. Asking \$200, OBO.

Date: Sat, 14 Nov 1998 09:06:46 -0500
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@lehigh.edu
Cc: cw@qth.net, larc-l@webtrek.com
Subject: [25084] the AZ book deal msg is out
Message-ID: <3.0.5.32.19981114090646.007c4cf0@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have just sent out the msg confirming and containing instructions on the recent book deal I had posted here.

If you were on the list, but did not receive this message (give it a day to crawl through the system), please let me know.

I have approx 28 books to order so the deal for \$9.95 is a definite go. So, thanks everyone for allowing me the bandwidth and please again let me know if you did not receive your message with the info.

tnx es 72/73 de Scott/n3byy
Laurel MD

Date: Sat, 14 Nov 1998 14:11:09 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: 50mhz <50mhz@qth.net>, njqrp <njqrp@njqrp.org>, "qrp-canada@lists.gpfn.sk.ca" <qrp-canada@lists.gpfn.sk.ca>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [25085] VA3SBB 28.241 Bcn
Message-ID: <364DD5CC.3313AD78@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Got the certificates done, just putting final touches on QSL cards. Thanks for those who reported via e-mail. Keep listening for the beacon, it is on 24 hrs on 28.241 MHz.
Fred VE3FAL/VA3SBB-Bcn....

Date: Sat, 14 Nov 1998 15:02:19 EST
From: DaveLeDuc@aol.com
To: qrp-1@Lehigh.EDU
Subject: [25086] FS: Bencher BY-2 Chrome paddles
Message-ID: <236fd9ba.364de1cb@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I have for sale Bencher BY-2 chrome paddles \$55 plus shipping.
73 Dave K1EPJ

Date: Sat, 14 Nov 1998 15:13:04 -0500
From: "GREGORY HEATH" <KB2QQM@email.msn.com>
To: "QRP-L (SENDING ? TO QRP-L)" <qrp-1@Lehigh.edu>
Subject: [25087] ANTENNA TAPE from doll house craft store.
Message-ID: <0da334713200eb8UPIMSSMTPUSR05@email.msn.com>

I was just at the craft store and was browsing around. I came upon the doll house section. I noticed that doll houses can be wired for electricity. The wire is insulated and comes on spools. It is very fine wire, almost like phone wire. I also saw some stick on wire-tape, just like they sell in the radio publications for like \$6. It was made of copper, with an adhesive backing. It was about a quarter inch wide and about 20 feet long. Just thought everyone would want to know of another source for this type of wire, for hidden antennas and such.

"72" Greg kb2qqm

Date: Sat, 14 Nov 1998 12:28:41 -0800
From: "Ivan Dubinsky" <ivand@mountain-inter.net>
To: <qrp-1@Lehigh.EDU>
Subject: [25088] S&S Engineering TAC1
Message-ID: <005501be100d\$611778a0\$a45ff4cc@ast>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hello,

Does anyone know where I might find a review on the S&S Engineering TAC1 xcvr. I am interested in the 80 meter version because of its wide frequency coverage up into the Canadian phone band (good for checking into the BC net). Any info will be appreciated.

Ivan Dubinsky
VE8ID/VE7

Date: Sat, 14 Nov 1998 15:48:14
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [25089] Tayloe mixer Rx and SCAF
Message-ID: <3.0.3.16.19981114154814.22cfbbc4@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy,

I bought a Linear Tech LTC1068 quad SCAF chip with one of my parts orders recently and took some time to build up a filter with it last night. The results were nothing short of amazing! The job it does cleaning up the wide band audio coming out of the phaser circuit is stunning.

A weak CW signal being QRM'd by a near-by digital signal is in the clear with the SCAF switched in. Three closely spaced CW signals that all come through without the filter are each individual signals with the filter. All the annoying high frequency crud is completely removed.

The circuit was designed by the Linear Tech fliter design software that comes with thier CD rom data book. Just give it your specs and it figures out all the R values you need and how many filter sections to use, draws the schemaitc, graphs the responce, etc. Really neat and painless.

The about best it would do with a single quad fitler chip is 20 dB of stopband attenuation with a 750 Hz center frequency, 300 Hz Passband width and 600 Hz stopband width. A fairly tight filter, but wide enough so a station calling slightly off frequency can be heard.

This is not a low budget filter, the chip costs \$12.00 and needs about 12 different 1% resistor values, which cost 52 cents per 5 pack, but damn, does it work good!

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 14 Nov 1998 15:36:28 -0500
From: Al Gritzmacher <ae2t@bigfoot.com>
To: qrp-1@lehigh.edu
Subject: [25090] RE: The Hensley Paddle: Move Over Mercury
Message-ID: <2.2.32.19981114203628.0071bc38@localnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>> Price Class: \$465 ppd
>
>HOLY METEORSHOWER! That's more than most of my rigs cost!
>
>Guess I'll just hav'ta stick with my good 'ol Brown Bros. paddle until my
>wife wins the lottery! :-)
>
>(Ya, I know; quality comes at a price...)

Think what a Brown Bros. paddle would cost if they still made them today!

Ya's gets what ya's pays for!!!

72,

Al AE2T
ae2t@bigfoot.com

Date: Sat, 14 Nov 1998 15:58:44 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Bruce Rattray <rattray@gpfn.sk.ca>
Cc: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [25091] FOX: Teams lineup (fwd)
Message-ID: <Pine.LNX.3.95.981114155513.15943B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

...as of November 14/98...

- | | |
|---|--|
| (1) - the Vibro-Fox Finders -
- Ed - WE6W
- Ed - N4XY
- Ron - KU7Y
- Vic - K2VCO | (2) - the Fox Nabbers -
- Doc - K0EVZ
- Dave - W0CH - Leader
- Tim - W5FN |
| (3) - the Northern Lights -
- Paul - VE7CQK
- Jeff - VA3JFF
- Earl - VE6EWM
- Fred - VE3FAL
- Bruce - VE5RC
- Jim - VE2KN | (4) - the Kentucky Porch Houndz -
- Rich - KA8OKH
- Dave - NU4N |
| (5) - the Swords -
- Ron - N8VAR
- Rick - WB6JBM/8
- Dan - N8IE | (6) - the Jersey Diddles -
- Joe - N2CX
- Tony - W2GUM
- Kevin - N2TO
- John - N4JS
- George - N2APB
- Bill - N2WF |
| (7) - the Underdogs -
- Dan - N4ROA
- Roy - AB7CE
- Ron - KI0II | (8) - the Texas Tarantulas -
- Dave - AB5WX
- Bill - K5LN
- Tom - N5TW
- Henry - W5HNS |
| (9) - the Brass Pounders -
- Ed - AB8DF
- Alan - KB7MBI | (10) - the Houston Hounds -
- Bill - K5ZTY
- Bill - W5SB
- Terry - KQ5U
- Dan - KK5LD |
| (11) - the Team Apathy
- Bob - AB7ST
- Randy - K7TQ
- Joe - AB7TT | |

Date: Sat, 14 Nov 1998 18:06:56 -0500
From: "JEFFREY MICHAEL POULIN" <jpoulin@erols.com>
To: <qrp-l@lehigh.edu>
Subject: [25092] brand new N/T+ fox this Wednesday
Message-ID: <199811142301.SAA05270@smtp3.erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang:

I'll be the N/T+ fox on Wednesday, November 18, 9 - 11 pm eastern. This will give the folks on the left coast time to get home and have dinner. (Boy, can I be optimistic!)

QRP-L # 743
call KF4JSV
date 11/18/98 (UTC 11/19/98)
time 9 - 11 pm eastern (UTC 0200 - 0400)
rig Ten-Tec Corsair II cranked down to 5 watts
antenna dipole at 25 feet (best I can do at the moment)

EXCHANGE: call sign, name, state, power output, QRP-L number

This will be my first time ever as a fox. Between my alledged code copying skills and extreme nervousness, please send no faster than 7-9 WPM. I feel like a kid staring up at a huge roller coaster: eager to take the ride but scared to death to do it.

73/72 Jeff KF4JSV QRP-L # 743

Date: Sat, 14 Nov 1998 16:24:54 -0700
From: KORWC <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [25093] A GOOD DAY
Message-ID: <3.0.5.32.19981114162454.007f62b0@mail.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks:

It was a good day, and I have to share...;-)

VEC Testing, I pass 20wpm code and Advance written!

1p-3p

3p-3:30p

3:30-????:

Yes it was/is/gonna be a good day. Thanks for listening.

— — —

da di dah
